

ABSTRACT

A power amplifier for enhancing output efficiency is disclosed. The power amplifier includes a first amplifier connected to a first power, a second amplifier connected to a second power, a common input impedance matching unit impedance matching inputted signals and outputting the inputted signals to the first amplifier and the second amplifier, a common output impedance matching unit impedance matching and outputting the signals amplified from the first amplifier and the second amplifier, an output impedance matching unit electrically connected between the first amplifier and the common output impedance matching unit, and modifying an output voltage value of the first amplifier to an output voltage value of the second amplifier, and an input impedance matching unit electrically connected between the common input impedance matching unit and the first amplifier, and compensating a phase shift occurring during the voltage modification of the output impedance matching unit.